



# ***Building the Army of the Future ...through Transformation and Modernization***

***The  
Heritage  
Foundatio  
n***



UNITED STATES ARMY



**CALL TO DUTY**  
BOOTS ON THE GROUND

***Secretary of the Army***



U.S. ARMY

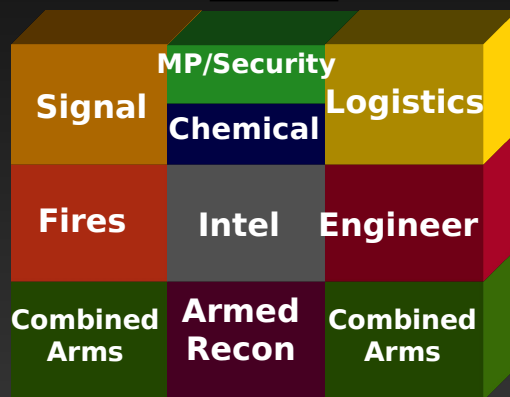
# Building the Army of the Future ...through Transformation and **Modernization**

## **FORCE TRANSFORMATION**

### Army Modular Force

X

Brigade  
BCT



• An autonomous, standardized, self-sufficient unit of action

• 76 Brigade Combat Teams (BCTs); 225 Support Brigades; 28 BCTs - Army National Guard

• Three Types of BCTs: Heavy, Infantry, and Stryker

## **BUSINESS TRANSFORMATION**

Culture Of Continuous Improvement



Letterkenny Depot - Reduced cost by 1.9M

Tobyhanna Depot - Reduced repair cycle time 31%

• Red River Depot - Improved productivity by 50%

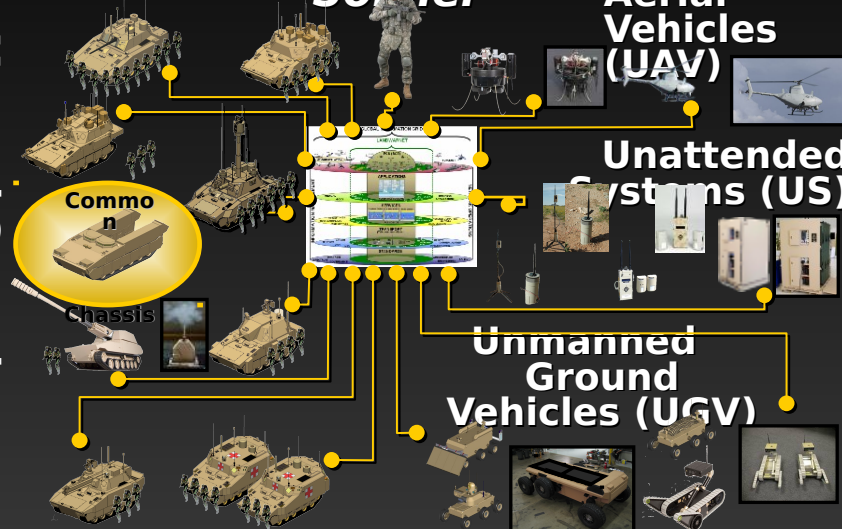
• Rock Island Depot - Reduced cost by \$11.9M

• Pine Bluff Arsenal - Reduced repair cycle



## **FUTURE COMBAT SYSTEMS - 14 Integrated Systems + 1 Networked Soldier**

Manned Ground Systems (MGV)



## **AVIATION MODERNIZATION**



Apache Longbow AH-64D: 634 A/C (FY06-11)

Blackhawk UH-60: 1806 A/C (FY2008-2027)

Chinook CH-47: 515 A/C (FY2007-2020)

Armed Reconnaissance Helicopter (ARH):

Lakota UH-72A Light Utility Helicopter:

Future Cargo Aircraft - 75 (FY10-17)

Army Unmanned Aerial Systems





# 21<sup>st</sup> Century Security

## Environment SPECTRUM OF CONFLICT

Increasing  
Violence

Stable  
Peace

Unstable  
(Pre-Insurgency)

Peace  
(Insurgency)

Insurgency

General  
War

## OPERATIONAL TYPES



21<sup>st</sup> Century Focus

Cold War Focus

## SPECTRUM OF OPERATIONS



Y





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# ***...Significant Operational and Tactical Advantages***

- **“See first”** - The combination of ubiquitous, persistent ISR and the network results in:
  - Enhanced knowledge of insurgent locations
  - Ability to monitor vast territory
  - Shared situational awareness among units and soldiers
- **“Act first”** - The combination of superior deployability and maneuverability, precision fires and the network results in:
  - Ability to rapidly deploy autonomous, fully capable formations in an incremental fashion...force employment on arrival
  - Keep insurgents dispersed...unable to connect with population or mass
  - More effective support to Host Nation...Train / Reinforce / Build Capacity
  - Enhance Special Operations Forces
- **Twice the number of infantry ...a more p**
- **Small logistical footprint, improved vehi efficiency, and the network results in:**
  - Sustained presence in the field







# ***...Significant Operational and Tactical Advantages***

- **“See first”** - The combination of ubiquitous, persistent ISR and the network results in:
  - Enhanced knowledge of insurgent locations
  - Ability to monitor vast territory
  - Shared situational awareness among units and soldiers
- **“Act first”** - The combination of superior maneuverability, precision fires, and the network results in:
  - Ability to surround and destroy enemy concentrations
  - Enhanced ability for discrete killing in the midst of civilians
  - Keep insurgents dispersed, disorganized  
unable to connect with population or mass
- **Twice the number of infantry ...a more persistent presence**
- **Small logistical footprint, improved vehicle efficiency, and the network results in:**
  - Sustained presence in the field
  - Larger area of operational control
  - Distributed operations





# "Black Sunday" April 04 - FCS in COIN

## Operations Actual Situation

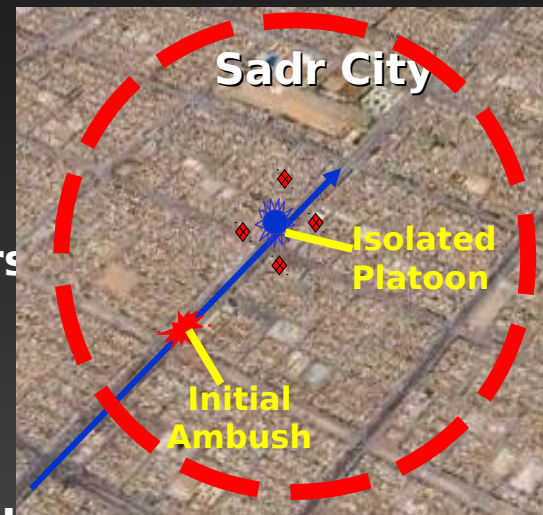
**Terrain:** Sadr City - Baghdad, IRAQ - Urban terrain; sparse vegetation, 1-2 story structures, narrow roads, irrigation canals, and ditches.

**Civilian:** Insurgents dressed in civilian clothes; women and children for intelligence collection, early warning, and preparation of obstacles / fighting positions.

**Atmospherics:** Previous day - 10,000 man anti-American demonstration in Sadr City.

### What happened

- Infantry Platoon patrol with 18 Soldiers, ambushed by insurgents: 2 Soldiers killed and 3 wounded, 2 x UAH HMMWVs destroyed - platoon isolated.
- Battalion rescue operation took 3 attempts and 3 hours allowing insurgents time to employ IED belt, VBIEDs, barriers, mines, and civilian gatherings.
- Rescue Unit: Multiple ambushes; No overhead recon; limited situational awareness; unaware of insurgent actions; limited comms; couldn't locate isolated platoon.



**6 SOLDIERS KILLED, OVER 50 WOUNDED IN THE RESCUE**

### What would happen with FCS Capabilities - Wargame Result

- Time to accomplish mission: < 1 hour
- Continual situational awareness...multiple ground and overhead sensors
- Enemy could take few actions that FCS unit did not see and then act upon

**NO SOLDIERS KIA OR WIA IN THE**



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# IED Survivability

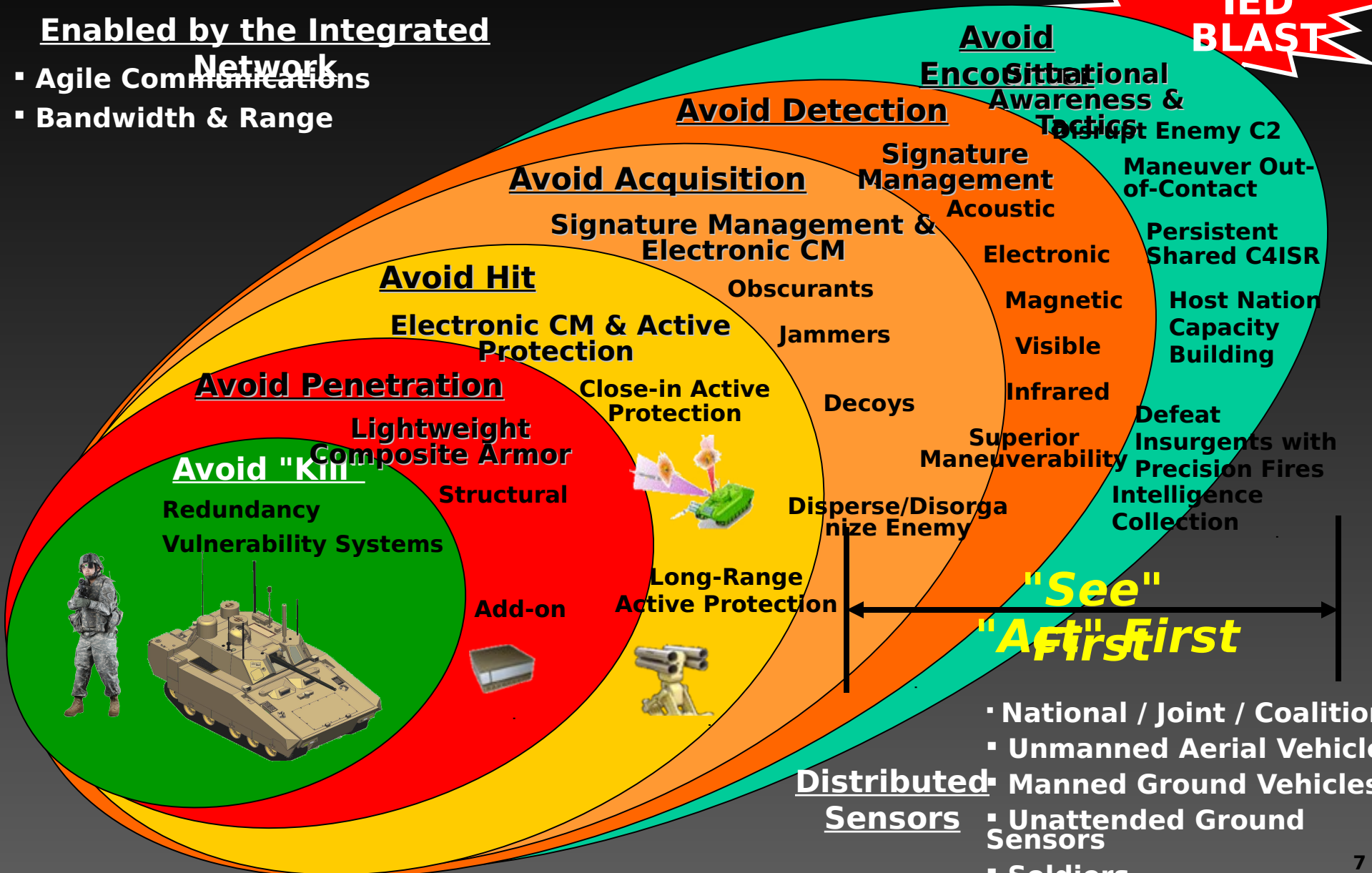
## ...FCS defeats IEDs "Left of the Bang"

### Enabled by the Integrated

#### Network

- Agile Communications
- Bandwidth & Range

**IED  
BLAST**

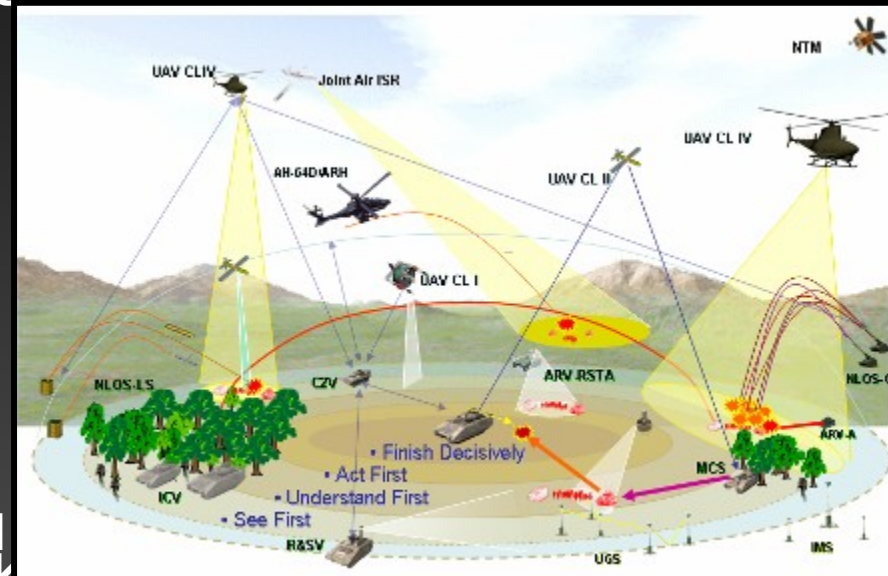




# ***Future Combat Systems - Bottom-line***

## **RELEVANT TO THE 21<sup>st</sup> CENTURY**

- **FCS is NOT a Cold War System - developed for the Long War**
- **Joint and Full Spectrum**
- **Drives autonomy down to Company / Platoon level**
- **Operational and Tactical advantages enabled by Technology:**
  - **Aerial and Ground Sensors**
  - **Network**
  - **Precision Weapons**
  - **Active Protection System**
  - **Robotic Surrogates**
  - **Light weight combat systems with advance propulsion**
- **Maintains “TOUCH”, cohesion and Joint links though the network**
- **Enhanced capabilities during the Pre-Insurgency phase that will prevent a full scale insurgency**
- **Improves ability to find, fix and finish the enemy in counterinsurgency operations**





# ARMY STRONG.<sup>SM</sup>



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ARMY STRONG.<sup>SM</sup>